SIEMENS

MAMMOMAT 3000

SP

Service

Repair Instructions

Reinforcement for "flying wing" locking lever

Repair kit; 64 32 939 X041E

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General

Purpose

This is an instruction on how to reinforce the attachment of the locking lever for the cassette format changer "pivoting Bucky" a.k.a. "flying wing" system if its fastening gets loose.

Explanation

The locking attachment, holding the locking lever, is fixed to the flange by means of two Allen screws M 6 x 25 mm. On Figure 1 one of these two screws is clearly visible under the spanner used to push away the cables obstructing the view. The other screw is in a distance of just about 15 mm, but on this
Figure it is covered by cables. During manufacturing the thread-locker LOCTITE 270 is applied and these two bolts are tightened with a torque of 10 Nm. The correct tightening and fixation of these two Allen screws is essential. If they get loose despite of the above mentioned measures, their re-tightening in the field is rather difficult. The approach with a suitable tool is not easy, attempts can be made to use ball-headed Allen key. It is impossible to engage a regular Allen key in axial direction. Realising the difficulties the factory offers an additional reinforcement by the repair kit Material number: 64 32 939.

NOTE	**Even if the kit 64 32 939 is going to be installed, first the described two screws have to be removed (always keep one screw in, to keep the lever in place). LOCTITE 270 has to be applied and the best possible tightening has to be attempted.** **(See the Work step no: 10.)**

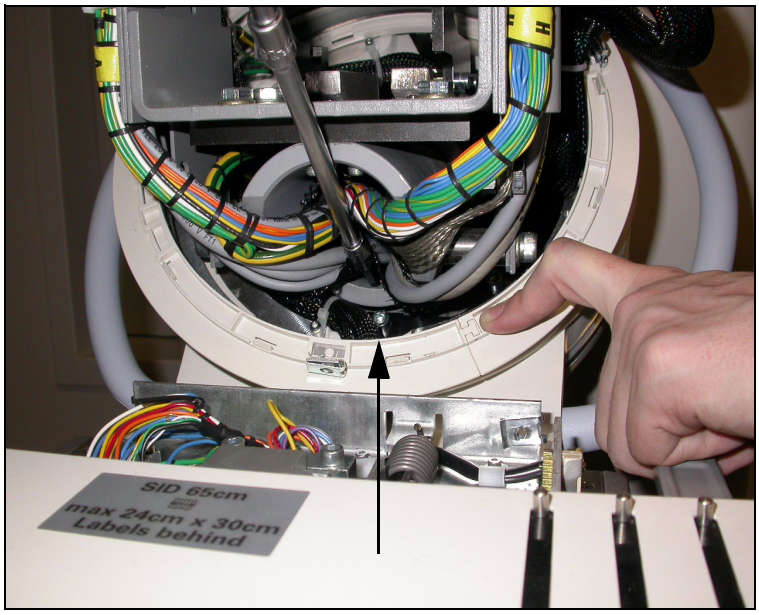


Fig. 1

Documents required

Installation and Start-Up Instructions for MAMMOMAT 3000; RX B7-230.033.01.....

Tools required

- Standard service tools.
- Set of punches.
- Locking ring pliers.
- Set of ball-headed Allen keys.
- Thread-locker: LOCTITE 270.

Time required

2 hours/ 1 person

Contents of update kit

The repair kit Material Number **064 32 939 X041E** contains:
(the repair kit does not contain the spare part Mat No: 64 21 528 - Lever Assembly).

Amount	Name
1	Reinforcement for locking lever 64 32 285
2	Screw M6 × 25
1	Locking pin
2	Locking ring
1	Repair Instructions (this document)

NOTE

As of August 2004 the design of the reinforcement bracket MatNo: 64 32 285 has changed. The diameter of the pre-drilled openings has decreased from former 8 mm to actual 7 mm. At the same time the holes aren't strictly circular anymore. They are made in a slotted (elongated) shape so they equally fit if the distance of the threaded holes is 55mm (as it was in Mammomat with serial number lower 5000), or if their distance is 60 mm (as can be found in Mammomat with serial numbers higher 5000).

If observing Figure 2 one can see the two Allen screws holding the bracket for fastening the plastic covers. If performing repair according to this instruction those two screws will have to be removed (see work step 4). Follow the procedure of attaching the reinforcement bracket as described further, however, always start with attempting to fasten the two Allen screws mentioned in the Para Explanations above.

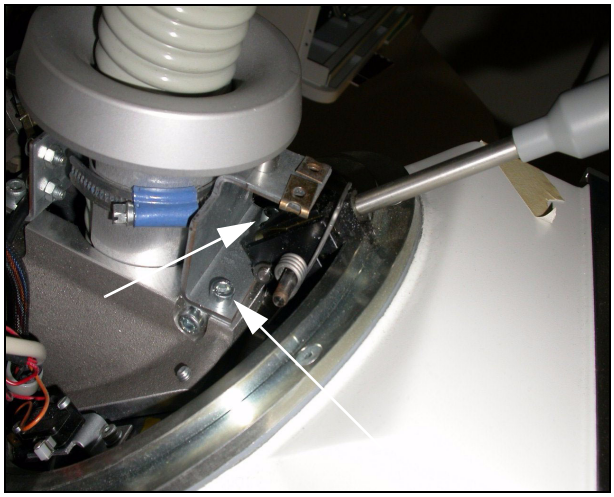


Fig. 2

Training of field service engineers

Due to the technology, used in this equipment, the modification is only allowed to be performed by a field service engineer trained on MAMMOMAT 3000.

Safety notes

When performing work and tests the following must be observed;

- the safety notes RA0-000-012
- the general safety notes contained in ARTD Part 2 (CD ROM)

Procedure

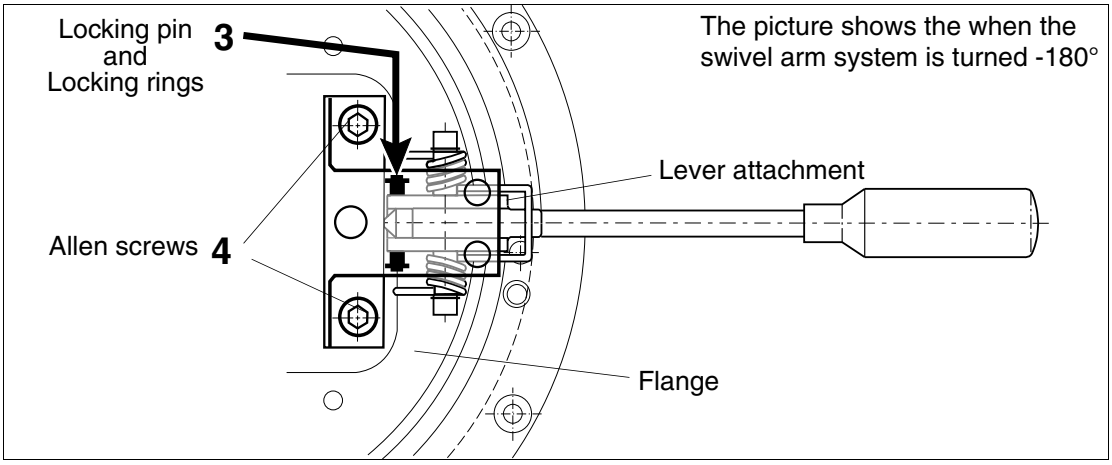
Dismounting

1 Turn the whole swivel arm system -180° for easier service handling;
- switch *ON* the MAMMOMAT,
- turn the arm to -180°,
- switch *OFF* the MAMMOMAT.

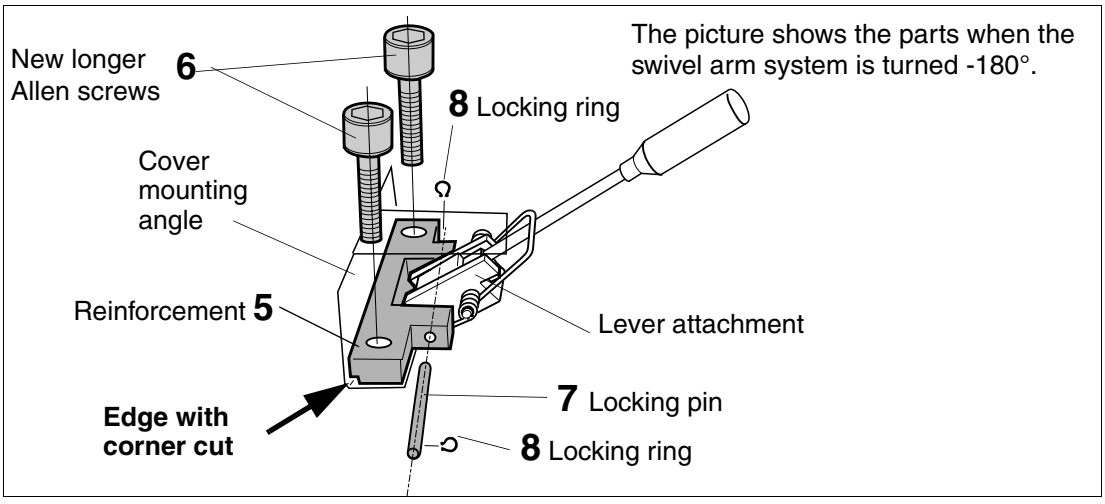
2 Remove the covers around the swivel arm axis, one on each side of the lever.

3 Remove the locking rings and the locking pin.

4 Remove the two screws of the cover mounting angle.


Locking pin and Locking rings 3
The picture shows the when the swivel arm system is turned -180°
Lever attachment
Allen screws 4
Flange

Kit mounting


New longer Allen screws 6
The picture shows the parts when the swivel arm system is turned -180°.
8 Locking ring
Cover mounting angle
Reinforcement 5
Lever attachment
7 Locking pin
Edge with corner cut
8 Locking ring

5 Place the new reinforcement into the cover mounting angle. *Position the edge with the cut corner as shown in the figure above.*

6 Attach, but not tighten, the two new longer Allen screws.

7 Insert the new locking pin into the holder through the lever package.

8 Mount the locking rings.

9 Tighten the two Allen screws.

10 From opposite side of flange; Tighten the two screws, securing the lever attachment to the flange.

Final procedures

11 Fit the covers.

12 Turn the swivel arm back to 0°.

13 Check the operation of the lever for both positions of the flying wing.

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